



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/736,999	12/13/2000	Doreen Yining Cheng	US008063	8478

7590

03/30/2004

Edward Blocker  
c/o Philips Electronics North America Corporation  
Corporate Intellectual Property Department  
580 White Plains Road  
Tarrytown, NY 10591-5190

EXAMINER

OSMAN, RAMY M

ART UNIT

PAPER NUMBER

2157

DATE MAILED: 03/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/736,999

Applicant(s)

CHENG, DOREEN YINING

Examiner

Ramy M Osman

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-22 are rejected under 35 U.S.C. 102(a) as being unpatentable over Ramaswamy et al. (European Patent No. EP 1 058 422 A1).

3. In reference to claim 1, Ramaswamy teaches A system for facilitating UPnP control of at least one non-UPnP device on one or more slave networks, the one or more slave networks including one or more different networking technologies (see page 1, section (57)), the system comprising:

a UPnP interface to at least one UPnP controller, the UPnP controller being configured to issue a UPnP command in conformance with a UPnP protocol (column 2 line 33 – column 3 line 5 and column 6 lines 25-31, Ramaswamy discloses UPnP interfacing through a UPnP controlling application (node D), the node issuing a UPnP commands),

a UPnP proxy enabler that is configured to:

receive the UPnP command (column 3 lines 1-35, Ramaswamy discloses a UPnP bridge configured to receive UPnP commands),

transform the UPnP command into a device command (column 4 line 51 – column 5 line 51 and column 7, Ramaswamy discloses UPnP commands converted to device commands),

communicate the device command to a target device of the at least one non-UPnP device on the slave networks (column 6 line 10 – column 7 line 40, Ramaswamy discloses sending a command to a non-UPnP device on a sub-network), and

communicate a UPnP acknowledgement of the UPnP command to the at least one non-UPnP controller, via the UPnP interface (column 14 lines 9-42, Ramaswamy discloses the UPnP interface (node D) receiving an acknowledgement response of the UPnP command sent to the non-UPnP device).

4. In reference to claim 2, Ramaswamy teaches system of claim 1, wherein the one or more different networking technologies include at least one of: a USB network, a bluetooth network, a HAVi-compatible network, an IEEE 1394 network, a Home API network, a HomeRF network, a Firefly network, a power line network, an X-10 network, and a Jim-compatible network (page 1, section (57), Ramaswamy discloses a non-UPnP networking environment as a HAVi networking environment).

5. In reference to claim 3, Ramaswamy teaches system of claim 1, wherein:

the UPnP controller is further configured to issue a UPnP request in conformance with the UPnP protocol (column 6, Ramaswamy discloses conforming to the UPnP protocol for the UPnP interface (node D) to send a request),

the UPnP request includes one of: a description request, a presentation request, a subscription request, and a query (columns 12-14, Ramaswamy discloses UPnP requests including requests and query/detection), and

the UPnP proxy enabler is configured to provide at least one of: a device description a service description, a presentation page, an event, and a value of a variable, in response to the

Art Unit: 2157

UpnP request (columns 3-5 and column 6 lines 1-40, Ramaswamy discloses UPnP bridge (node C) configured to provide responses to the UPnP requests).

6. In reference to claim 4, Ramaswamy teaches system of claim 1, wherein:

the UPnP proxy enabler includes at least one of a discovery module that is configured to provide an advertisement of at least one non-UpnP device to the UPnP controller (column 3 line 1 – column 4 line 15 and column 13 lines 19-55, Ramaswamy discloses the bridge providing an ANNOUNCE message indicating discovery of a non-UPnP device to the UPnP network),

a description module that is configured to provide a description of functions of at least one non-UPnP device to the UPnP controller, in response to a request from the UPnP controller (column 3 line 1 – column 4 line 15 and column 13 line 55 – column 14 line 25, Ramaswamy discloses providing a description of the non-UPnP device to the UPnP network), and

a presentation module that is configured to provide a presentation page that facilitates a control of the at least one non-UPnP device by a user (column 3 line 1 – column 4 line 15 and columns 6 & 14, Ramaswamy discloses a control presentation to control the non-UPnP device by a user).

7. In reference to claim 5, Ramaswamy teaches system of claim 4, wherein at least one of the discovery module, the description module, and the presentation module is configured to provide the advertisement, the description, and the presentation page, respectively, for the at least one non-UPnP device of the slave networks (columns 3,4,6,13 & 14, see above).

8. In reference to claim 6, Ramaswamy teaches system of claim 1, wherein the UPnP proxy enabler includes at least one of:

a device control module that communicates commands to the target device (column 6 line 10 – column 7 line 40, Ramaswamy discloses sending a command to a target non-UPnP device on a sub-network),

an event subscription module that receives requests from the at least one UPnP controller to be notified of one or more changes of state of the target device (column 5 line 45 – column 6 line 58 and column 13, Ramaswamy discloses bridge receiving request from UPnP interface device (node D) for non-UPnP device (target device) information (state)), and

an event source module that notifies the at least one UPnP controller of one or more changes of state of the target device (column 3, column 5 line 45 – column 6 line 58, columns 13 & 14, Ramaswamy discloses bridge notifying UPnP device (node C) which notifies UPnP device (node D) of state changes in the non-UPnP target device).

9. In reference to claim 7, Ramaswamy teaches system of claim 6, wherein:

the device control module maintains a service state table that reflects the state of the target device (column 3 & 13, Ramaswamy discloses maintaining a representation of each network element by the bridging device), and

the event source module notifies the at least one UPnP controller of the one or more changes of the state of the target device based on the service state table (column 3, column 5 line 45 – column 6 line 58, columns 13 & 14, Ramaswamy discloses bridge notifying UPnP device (node C) which notifies UPnP device (node D) of state changes in the non-UPnP target device).

10. In reference to claim 8, Ramaswamy teaches a system of claim 1, wherein the UPnP proxy enabler communicates the device command to the target device by modifying a data structure that is associated with a thread, and the thread effects the communication to the at least

Art Unit: 2157

one non-UPnP device of the slave networks (column 5 line 45 – column 7 line 58 and column 13, Ramaswamy discloses the bridge communicating device command to non-UPnP device).

11. In reference to claim 9, Ramaswamy teaches system of claim 1, wherein the UPnP proxy enabler is further configured to detect a connection and disconnection of the at least one non-UPnP device, and update one or more data structures associated with the slave networks accordingly (column 5 line 45 – column 7 line 58 and column 13 line 1 – column 14 line 25, Ramaswamy discloses bridge detecting addition/removal of non-UPnP device and updating configuration data).

12. In reference to claim 10, Ramaswamy teaches system of claim 9, wherein the UPnP proxy enabler is further configured to initiate and terminate threads based on the connection and disconnection of each of the at least one non-UPnP device (column 5 line 45 – column 6 line 58 and column 13 line 1 – column 13 line 25, Ramaswamy discloses initiating and terminating messages based on the addition/removal of non-UPnP devices).

13. Claims 11-22 do not teach any new limitations above claims 1-10 and are therefore rejected for the above mentioned reasons.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M Osman whose telephone number is (703) 305-8050. The examiner can normally be reached on Monday through Friday 9AM to 5PM.


Art Unit: 2157

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703) 305-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMO

March 18, 2004

  
ARIO ETIENNE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100